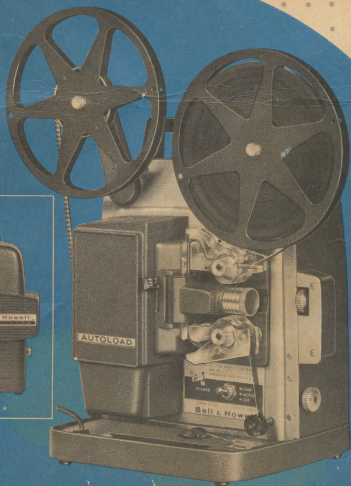


HOW  
TO USE  
YOUR

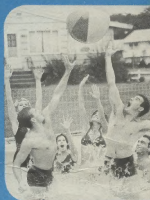
**Bell & Howell**  
SUPER 8 AUTOLOAD®  
MOVIE PROJECTOR

MODEL  
346





show  
movie  
scenes  
like these  
over  
and over  
again  
with  
your  
new

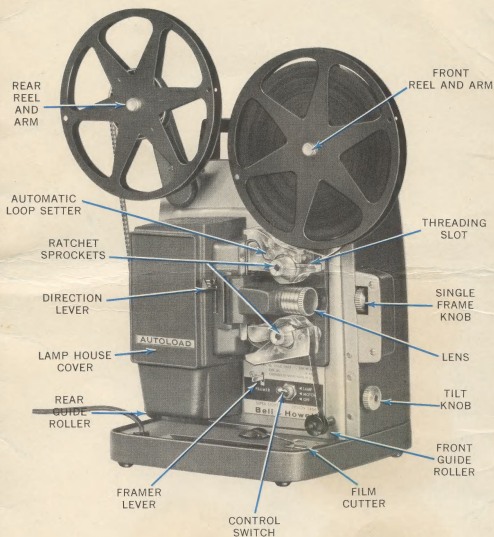


**Bell & Howell**



**AUTOLOAD<sup>®</sup>**  
model 346  
**SUPER 8**  
**PROJECTOR**





Keep this flap open as you read through the instructions.  
It will give you a quick reference to all the  
working parts of your projector.

# congratulations

You are now the owner of a new, easy-to-use Bell & Howell Super 8 projector. From the first time you put on a show with your new projector, you'll be pleased to see how brilliant and clear it shows movies.

The same skilled craftsmen and engineers who designed lenses for the U.S. moonshot put their experience and knowledge together in perfecting your projector. Its modern design, compactness, and superior performance will let you review exciting moments of the past over and over again.

**NOTE:** To remove side of case, depress case button and draw case side away from projector.



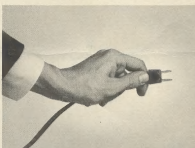
## 1. release reel

To release the reel on which the cord is wound, press against the reel spokes as shown. The bottom front edge of the reel is retained by a clip on the projector base, in the reel well. After your show is completed, replace the reel in the storage well, making sure the clip is engaged.



## 2. plug it in

Plug the electrical cord into a wall outlet supplying 110-120 volt, 60-cycle alternating current only. The cord can be wound around the spare reel and stored in the slot in the base of your projector.



## 3. position the reel arms

Swing up the front and rear reel arms until they snap into operating position as illustrated. Place the empty take-up reel on the rear spindle and the full reel on the front spindle so that the film end feeds from the bottom of the reel towards the projector. Rotate each reel until the slot in the center of the reel engages with the key on the spindle; then push each reel firmly into position.



REEL ARMS DOWN



REEL ARMS UP

## 4. projected picture sizes

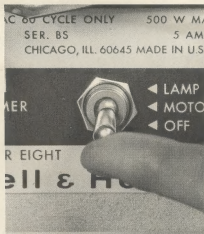
Set up your screen. For standard 1" lenses, use the table below as a guide.

Distance in Feet From Screen to Film

Lens Focal Length	10'	12'	15'	20'	25'	30'	35'	40'	45'
	Upper Dimension is Width of Picture					Lower Dimension is Height of Picture			
1"	1'10"	2'2"	2'9"	3'8"	4'8"	5'7"	6'6"	7'5"	8'5"
	1'4"	1'8"	2'1"	2'9"	3'5"	4'2"	4'10"	5'7"	6'3"

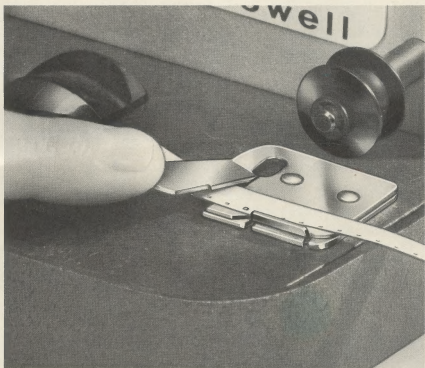
## 5. turn it on

Move the control switch to the "Lamp" position. Rotate the lens until the edge of the frame of light is fairly sharp. If the frame of light projected on your screen is too high or too low, grasp the Carrying Handle and tilt the front of the projector up, at the same time loosening the Tilt Knob. This will release the Tilt Leg. Tighten the Tilt Knob when the frame of light is centered on your screen. Be sure the projector is pointed directly at your screen, not at an angle. Then turn your projector off.



## 6. trim film end

If your film is being used for the first time, or if it has a ragged end, square off the white leader end in the cutter on the base of your projector. Place the film flat in the channel and register a perforation with the guide pin; then press the cutter down to produce a clean cut.

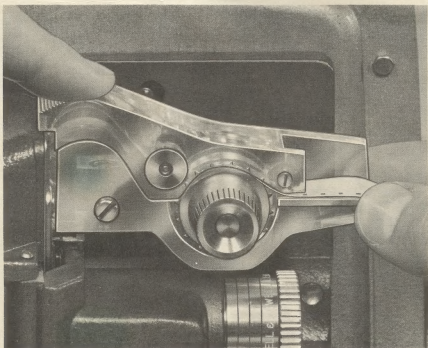


## 7. automatic threading

To automatically thread your projector, first set the Control Switch to "Motor" and the Direction Lever to "Forward." Then press down the Automatic Loop Setter and **firmly hold down**. While you are holding down the Loop Setter, feed the film into the threading slot. Continue holding the Loop Setter down until the film emerges from the lower sprocket. Then release the Loop Setter. Set the Direction Lever to "Still" when approximately two feet of film have passed the lower sprocket, and out of the machine.

### IMPORTANT:

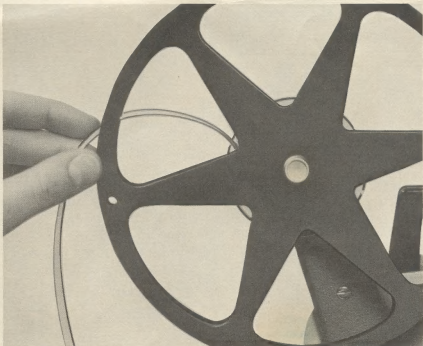
Not holding down firmly on the Automatic Loop Setter will cause the film to thread improperly. If this happens, push the direction lever to "Reverse" to remove the film, and re-thread properly.





## 8. engage film on rear reel

Take hold of the end of the two feet of film that has passed the lower sprocket. Place it underneath the front and rear Guide Rollers located near the base of your projector. Draw the film upward and engage it on the rear reel by putting the film end into one of the slots in the reel hub. Give the reel a turn with your hand to make certain that the film is secure on the reel.

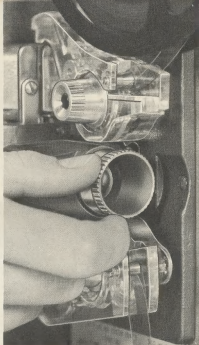


## 9. starting the show

With your projector set up, turn off the room lights. The room in which you show your movies should be darkened as much as possible; this will greatly enhance the quality of your movies. Just set the Control Switch to "Lamp" and the Direction Lever to "Forward" and you're ready to show movies.

## 10. focusing

To focus your picture on the screen during the first few seconds your film runs, rotate the lens in either direction until the image is sharp.

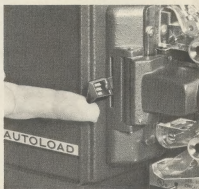


## 11. framing

If your picture is cut off at the top or bottom, move the Framer Lever slowly until the picture is properly centered and framed on your screen.

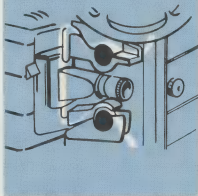
## 12. still picture and reverse

To stop at a single frame of your movie, move the Direction Lever to the center position, "STILL." If when you do this, the screen goes black or the image is partially blocked, just rotate the Single Frame Knob slowly until a bright still picture appears on your screen. To reverse the action for special effects, or to review a scene, just move the Direction Lever to the "REVERSE" position. To again proceed forward, move the Direction Lever back up to "Forward."



## 13. automatic loop setter and ratchet sprockets

If your film has a torn perforation or a poor splice, it may cause your projector to lose its loop. (A loop is formed in the film at the inner ends of the top and bottom loop setters.) Should this happen, you'll hear a pronounced clicking sound, and your picture will flutter on the screen. To automatically restore the loop without interrupting your show, simply press down the Automatic Loop Setter quickly, and release immediately. If this doesn't restore the loop, proceed as follows. Place the Direction Lever in "Still" position; then press down the Automatic Loop Setter and hold it down. Turn either the top or bottom ratchet sprocket dial just enough to fill the upper and/or lower loop former in which the film loop has been lost. Then set the Direction Lever to "Forward" to continue your show. Examine your film after the show. Remove and splice out the section which has caused the projector to lose its loop.



## 14. if your projector loses its loop...

THE FILM MAY LOOK LIKE ONE OF THE SKETCHES BELOW  
—Remove the damaged parts, or replace poor splices.

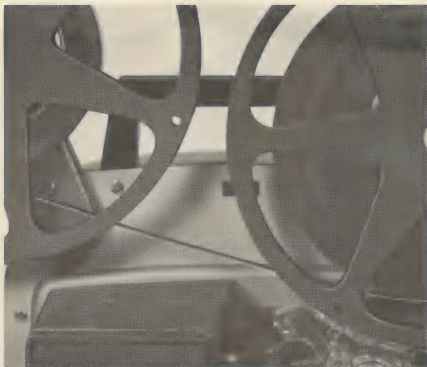


## 15. rewinding

When the last of your film passes through the projector, turn the Direction Lever to "Still" and the Control Switch to "Motor." To rewind, lead the film from the rear reel directly across to the front reel and engage it from underneath. Turn the front reel 2 or 3 turns to take up any slack. Then move the Direction Lever to "Reverse."

### **NOTE:**

Before storing your projector, make sure that the Direction Lever is in the center "Still" position. Place the spare reel in the slot on the base of your projector so that the clip locks the reel in the slot at the base.



## 16. caring for your SUPER 8

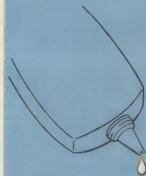
Your new Super 8 is as easy to care for as it is to operate and requires little in the way of maintenance. Just a regular cleaning now and then will assure you of receiving the superior service that you expect from your Bell & Howell projector.

## 17. maintenance

Your projector has been lubricated at the factory so that you need not oil it. However, we recommend that it be cleaned and adjusted periodically by the Bell & Howell factory, a branch office, or by one of our approved service stations.

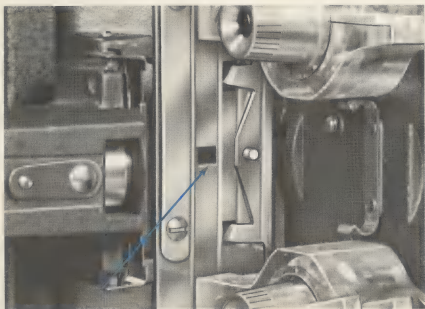
## 18. cleaning the lens

Pull out the projection lens for cleaning. Wipe off the lens surfaces with a soft cloth or sheet of lens tissue moistened with a few drops of a good lens cleaner such as used for cleaning eyeglasses. Be sure to clean both ends of the lens.



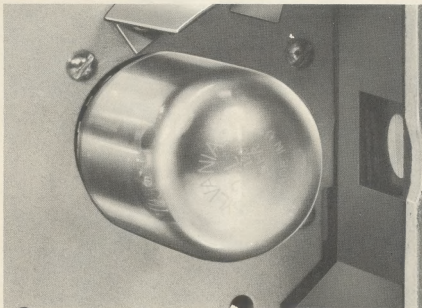
## 19. cleaning the aperture and film channel

Open the lens gate before each showing (the lens and lens holder swings out toward you like a left-hinged gate). With a small brush or a piece of soft cloth, wipe the aperture and film channel as indicated by the arrow below. A rubber ear-syringe is useful for removing any dust or dirt which might accumulate within the upper or lower film guides. All film handling parts of your Automatic Threading Projector are recessed and your picture area floats in air which prevents film scratching and adds extra life to your prize movies. It is also a good practice to clean your film regularly with a film cleaning kit available from your photographic dealer.



## 20. lamp replacement

If the lamp burns out during a show, place the Direction Lever in "Still" position. Allow the projector to run in the "Motor" position until the lamp has cooled. Turn the projector off. Unsnap the Lamp House Cover by pulling outward. Grasp the top of the lamp and pull it straight out, as you would a radio tube. The correct replacement lamp to use is indicated on the plate inside the lamp house cover. To insert the new lamp, align the center guide pin on the lamp with the lamp socket by rotating the lamp until it easily presses into place. Be sure the lamp is firmly seated. Replace the Lamp House Cover.



21.

## making the most of your movies

Much has been said about the art of taking home movies, but very little told about the art of showing them. At your next show, give your audience a break by showing your movies under the best possible conditions. Some of the following suggestions will help you to keep your audience entertained throughout your entire show.

## 22. planning a show

Planning on having some friends in soon for a showing? Then why not have your projector all ready to roll—threaded with film and the lens focused on your screen? When your guests arrive, just a flip of the control starts the reels rolling without any unnecessary delay.

## 23. titles are important

Let your audience know what they're watching! When you're shooting your movies, take advantage of the ready-made titles around you . . . road signs, writing in the sand, a building or a name on one. You can create titles at home simply by writing on a card with crayon. For professional-looking titles, ask your Bell & Howell dealer to show you a title kit that can be used with your camera.





## 24. brilliant illumination

While you're setting up your projector, use a soft cloth or lens tissue and a drop of a good lens cleaner to wipe off any dust or dirt that might have accumulated on the lens or film channel. This will give you the brilliant illumination you expect from your Bell & Howell Super 8 . . . helps protect your film too.

## 25. projection lamps

Don't be caught in the dark in the middle of your show! Always keep a spare projection lamp handy, in case the one in your projector should burn out during your show. Replace it with only the type of lamp indicated on the plate inside the lamp house cover.

## 26. full half hour show

You can put on full half-hour shows if you splice your 50-foot rolls of film together on Bell & Howell 400-foot reels. Once your films are joined together in a storytelling sequence, they'll be more fun to show. Keep several Bell & Howell 400-foot reels on hand.

## 27. keep your film safe

Protect your films by keeping them in a cool dry place stored in Bell & Howell film cans. You'll find any film quickly and easily if you write your title on the film can cover.



# **Bell & Howell**

## **GUARANTEE**

This new Bell & Howell product is guaranteed to be free from imperfections in both material and workmanship for one year from date of original purchase. Should any part of this equipment be defective, it will be replaced or repaired free of charge (except for transportation), providing the equipment has been operated according to the instructions accompanying it.

No liability is assumed for film which is damaged or is unsatisfactory for any reason and no liability is assumed for interruptions in operation of equipment.

This guarantee is void:

- a) If equipment has been damaged by accident or mishandling;
- b) If equipment has been serviced by other than Bell & Howell approved service stations\*;
- c) If adaptations or accessories other than Bell & Howell have been made or attached.

The foregoing is in lieu of all other warranties expressed or implied and Bell & Howell Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with this product.

*\*Location of nearest approved service station will be furnished on request.*

General Service Dept.  
Bell & Howell Co.  
7100 McCormick Rd.  
Chicago, Ill. 60645

General Service Dept.  
Bell & Howell Co.  
623 Rodier Dr.  
Glendale, Calif. 91201

General Service Dept.  
Bell & Howell Co.  
200 Smith St.  
East Farmingdale, L.I., N.Y.

Your projector Serial Number is located on the control switch name plate.  
Make a record of it, in case of loss or theft.

### **Bell & Howell**

**7100 McCORMICK RD.  
CHICAGO, ILL. 60645**